ZE-NC4612

CAR SPECIFIC NAVICEIVER FOR MERCEDES-BENZ VEHICLES

USER MANUAL

ZENEC

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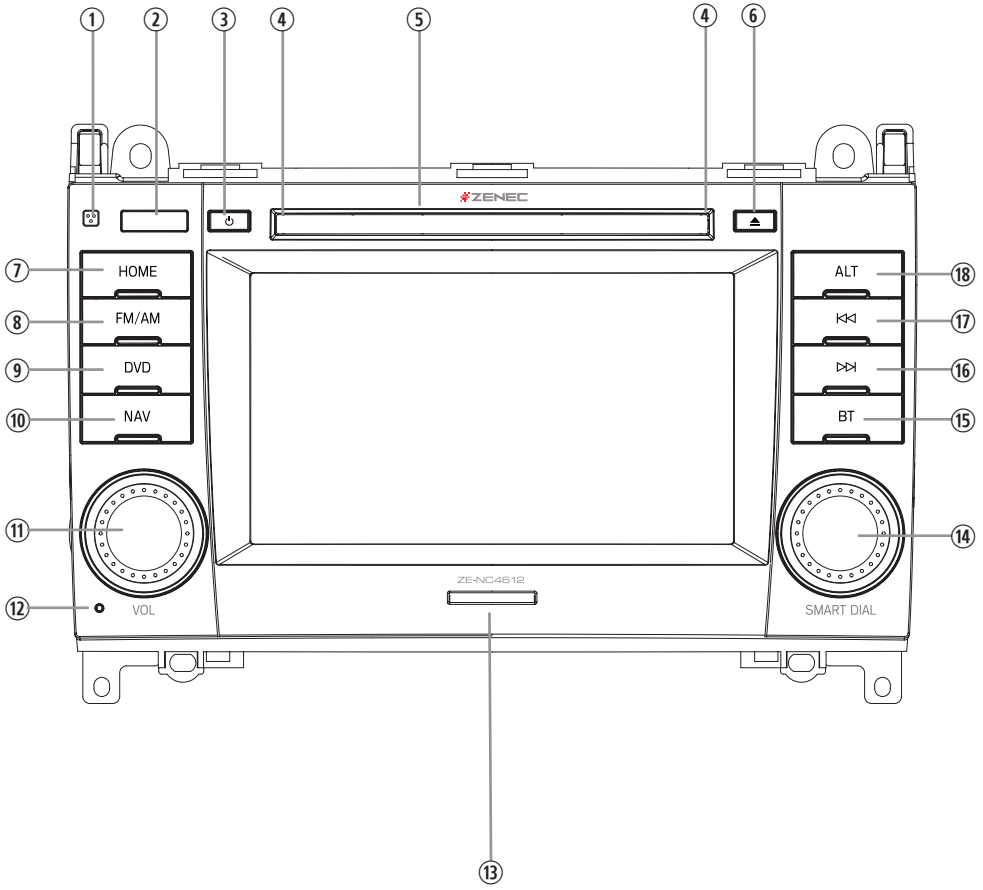
⚠ Navigation manual is separate.

SAFETY INSTRUCTIONS

1. Read these instructions entirely.
2. Keep these instructions within reach. Whoever uses the unit should have access to this manual.
3. Heed all warnings. Follow the instructions.
4. This unit is designed to be used in a vehicle with 12V DC battery and negative ground.
5. Do not operate the unit in any other way than described in this manual. Failure to follow the instructions within this manual may void your warranty.
6. Do not disassemble or alter the unit in any way, because it will void your warranty. Do not attempt to repair or to service the unit yourself, but contact an authorized ZENEC dealer instead.
7. Use only original accessories which are designed and manufactured for the unit, otherwise you will risk damage. Install the unit according to the mounting manual, using the supplied mounting accessories. The forces of acceleration for accidents are sometimes huge. Incorrect mounted units are a big risk for the driver and the car passengers, during an accident.
8. Protect the unit from water and other liquids, which can enter the casing. A short circuit or even fire could be the result.
9. To prevent a short circuit, never insert or stick any metallic objects (such as coins or metal tools) into the unit.
10. Before you replace a defective fuse, try to find the cause for the short circuit. Please pay attention to the cables of the power supply! If the short circuit doesn't result from a failure of the power supply or wiring, you can replace the defective fuse with a new one (same values). If the short-circuit is still existing, please contact an authorized ZENEC dealer.
11. When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products.
12. Be careful not to drain the car battery while using the unit when the car engine is turned off. Because the unit uses a considerable amount of energy and the battery will be charged only while the engine is running, it might happen that the battery will discharge to a point where it's not longer possible to start the engine.
13. According to the law in different European countries, driving with monitors which are showing movies in the viewing range of the driver is not allowed, because the driver might be distracted from the traffic. Please respect the traffic regulations of your country, or you might face penalties in case of an accident or even loose your insurance coverage. Please pay attention to the volume inside your vehicle, because you are obliged to notice exterior sounds like police sirens etc.
14. Don't expose the unit to hard impacts. A mechanical or electrical malfunction of the unit could be the result.
15. Should any problems or questions occur during installation, please consult your ZENEC dealer/ importer.
16. This unit utilizes a class 1 laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous exposure to coherent light. Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

FRONT PANEL BUTTONS

Front Panel



FRONT PANEL BUTTONS

1. **INTERNAL MICROPHONE**

2. **IR RECEIVER**

3. **POWER ON/OFF**
   Press to power on/off device
   Press to mute/unmute audio output

4. **DISC INDICATOR**

5. **DISC SLOT**

6. **EJECT**
   Eject disc

7. **HOME**
   Press to open Main Menu,
   hold to open EQ page

8. **FM/AM**
   Press to switch to FM/AM source
   Press and hold to de- and activate TA function

9. **DVD**
   Press to switch to DVD source

10. **NAV**
    Press to switch between Navigation and playback page
    Press and hold to fade in/out the infobars manually

11. **VOL**
    Rotate to increase/decrease volume
    Press to mute/unmute audio output

12. **RESET**
    Press to initiate a hardware reset

13. **SD CARD SLOT**

14. **SMART DIAL**
    Rotate to move a cursor up and down
    Press to confirm a selection

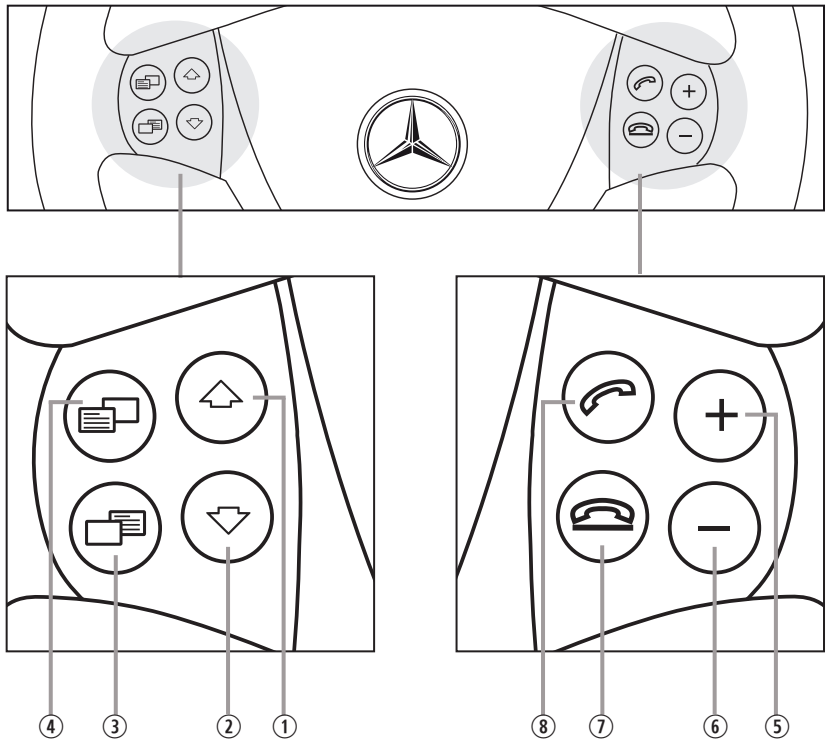
15. **BT**
    Press to switch to BT source

16. **NEXT**
    Press to choose next Track|Chapter|Station
    Press and hold to fast forward

17. **PREVIOUS**
    Press to choose previous Track|Chapter|Station
    Press and hold to fast rewind

18. **ALT**
    Function can be set in Setup
    Press and hold to open the Video setup

OPERATION OF STEERING WHEEL CONTROLS



OPERATION OF STEERING WHEEL CONTROLS

1. **NEXT***
   Press to choose next Track|Chapter|Station
   Press and hold to fast forward

2. **PREVIOUS***
   Press to choose previous Track|Chapter|Station
   Press and hold to fast rewind

3. **MFA SOURCE+**
   No function for ZENEC device

4. **MFA SOURCE-**
   No function for ZENEC device

5. **VOL+**
   Press to increase volume

6. **VOL-**
   Press to decrease volume

7. **HANG UP/EXIT BT**
   Hang up a phone call
   Exit Bluetooth mode

8. **SWITCH TO BT/ANSWER CALL**
   Answer an incoming call
   Switch to Bluetooth mode

***NOTE:**

- These buttons work only, if radio mode was chosen for the multifunction driver information display.

BASIC OPERATION

POWER ON/OFF

Correctly installed, your device will power on together with the ignition of the vehicle. Ignition off: Device does not receive power. When the ignition is activated, you may also switch the device On and Off using the front panel power button.

SELECT A SOURCE

Enter main menu:

- Via Touchscreen:

  Touch the icon in the upper left corner of the screen.

- Via "HOME" button:

  Push "HOME" button to enter main menu.

Operation at main menu:

The main menu consists of three pages: 2 main pages and 1 M-Zone page.

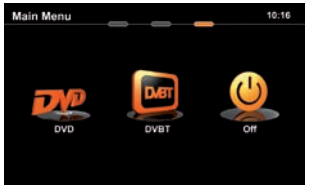
There are two basic ways to get there:

- Slide — You can slide the two main pages back and forth. Just slide your fingertip onscreen in the respective direction. The M-Zone page (backseat area) cannot be accessed via sliding.
- Bar — Tap on any of the three rectangular markers in the top area of the screen to navigate through all three main menu pages. M-Zone included.

Entering the main menu you have access to all playback sources and settings.

Main menu 1

Main menu 2



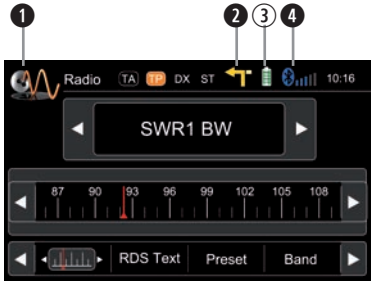
M-Zone page

ADJUST LOCAL LANGUAGE

Tap center header button or slide to second main menu page. Choose SETUP > GENERAL > LANGUAGE and adjust to your likings. You might want to adjust some other basic settings. See chapter "Setup".

BASIC OPERATION

Basic elements (for all playback sources)



Display & control elements:

❶ Indicates current source
- Tap to enter main menu

❷ Indicates when NAV infobar is available
- Tap to display NAV infobar
- Tap again to hide it

③ Connected mobile phone battery status.

❹ Mobile phone GSM reception field strength

Three infobar styles:

NAV infobar

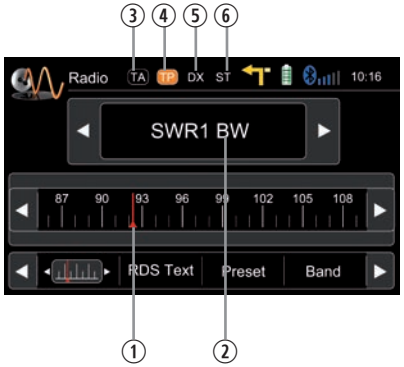
Playback infobar

BT infobar

NOTE:

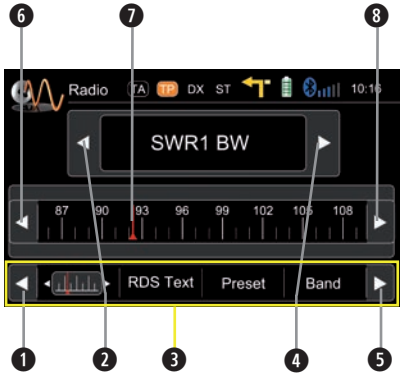
- Press and hold the NAV button to fade in/out the infobars manually. Touch the icon to fade out the infobars manually.
- NAV infobar is only available during active route guidance.
- An incoming call or new playback information triggers the automatic pop-up of the other infobar types at NAV screen. They will fade out after five seconds.

RADIO MODE



Display elements:

① Red line marks current frequency
② Frequency or station name
③ Traffic announcement status
④ Traffic announcements on carrier
⑤ LOC/DX status
⑥ Stereo reception indicator



Control elements:

❶ Scroll left
❷ Previous station
❸ Tap to select center display content
❹ Next station
❺ Scroll right
❻ 50 kHz down
❼ Drag to adjust frequency
❽ 50 kHz up

RADIO MODE

RDS text allows a radio station to transmit free-form textual information that can be either static e.g. station slogans or in sync with the programming such as the title and artist of the currently playing song or even short ads. Availability depends on region, reception quality and carrier.

RADIO MODE

Select preset or save a preset. Press and hold a center button to enter a new frequency as preset.

To select a radioband tap on a center button.

RADIO MODE

Lower bar options:

The selected item is highlighted in orange on the screen:

AF ON/OFF: When activated, AF function automatically switches to an alternative frequency (AF) of your chosen station, in order to always offer the best possible reception quality.

TA ON/OFF: When activated, the radio temporarily switches, for the duration of the traffic announcement, to tuner mode.

AS Searches for the six strongest stations and saves them as preset.

SCAN Intro-scan of all stations in reception range. You can hear each station for a short moment. Lock to the one you like by pressing scan again.

REG ON/OFF: At certain daytimes some stations divide their program into regional subprograms. The REG function prevents your receiver from switching to an alternative frequency with different content.

LOC /DX Touch LOC/DX to omit or allow reception of stations with weak signals. If LOC is activated it will exclusively tune to strong stations.

NOTE:

- This unit features an RDS tuner. RDS is a system which transmits data on top of the FM radio signal. Availability and content of the RDS data depend on the respective broadcast station and its signal strength. RDS does, for example, transmit alternative frequencies, which allow for frequency changes without user interaction. AM band doesn´t support RDS functions.
- You need to have the AF function activated in order to use the RDS feature. However, the AF function is deactivated ex factory. We recommend to activate it directly after mounting/installation of your device.

Playback page:

Display elements:

① Source
② Current folder/playlist
③ ID3 tag info
④ Progress bar
⑤ Album Art

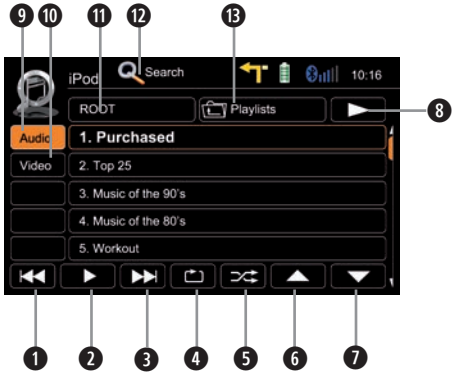
Control elements:

❶ Previous track
❷ Play/Pause
❸ Next track
❹ Repeat
❺ Shuffle
❻ Switch to playlist page

Playlist page iPod:

Display elements:

① iPod mode
② Track/folder/playlist
③ Current folder



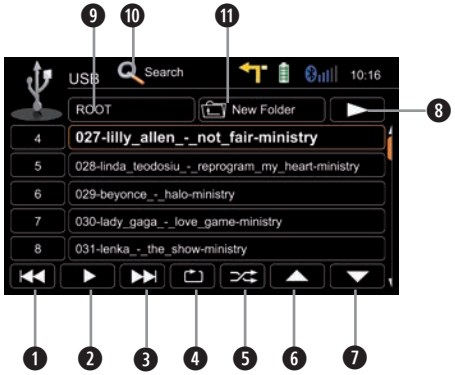
Control elements:

❶ Previous track
❷ Play/Pause
❸ Next track
❹ Repeat
❺ Shuffle
❻ Cursor up
❼ Cursor down
❽ Switch to playback page
❾ Switch to iPod audio mode
❿ Switch to iPod video mode
⓫ Go to root directory
⓬ Search
⓭ Folder/playlist up

Playlist page USB/SD/Disc:

Display elements:

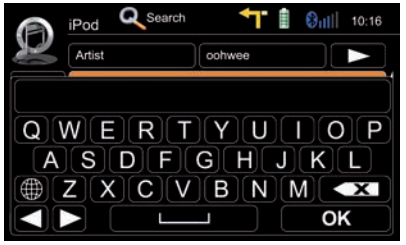
① Track index
② Track/folder
③ Current folder



Control elements:

❶ Previous track
❷ Play/Pause
❸ Next track
❹ Repeat track
❺ Shuffle
❻ Cursor up
❼ Cursor down
❽ Switch to playback page
❾ Go to root directory
❿ Search
⓫ Folder up

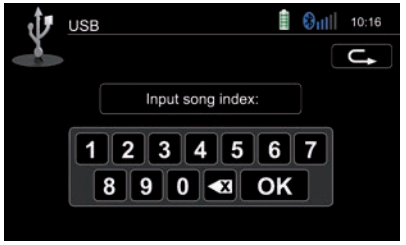
Search function:



iPod search:

Tapping on Search pops up an alphabetic keyboard, allowing you to enter an initial letter. Alphabetic search is unique for iPod mode.

Tapping on pops up the keyboard option allowing you to select your preferred keyboard language.



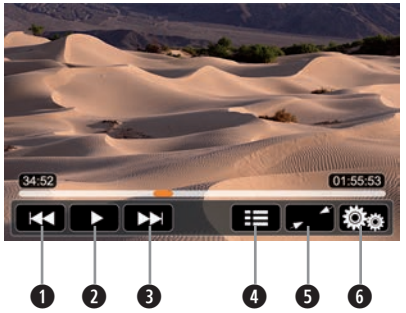
USB/SD/Disc mode search:

Tapping on Search pops up an numeric keyboard, allowing you to enter track numbers. Numeric search is unique for USB/SD/Disc mode.

Elements to control playback of video files:

Display elements:

① Current temporal position in track
② Total duration of track



Control elements:

❶ Previous title/track/chapter
❷ Play/Pause
❸ Next title/track/chapter
❹ To playlist/root menu of DVD
❺ Full screen mode
❻ DVD settings

USB/SD/Disc mode:

- Make sure your mass storage device is FAT32 formatted.
- Depending on directory structure and contents the total number of available folders is limited.
- Sorting and reaction time depends on speed and capacity of the mass storage used, as well as on the amount of stored data.
- Connected USB hard disks have to be formatted with FAT32 and are only allowed to consume a maximum of 400mA (peak) current. Otherwise they must be considered incompatible and can´t be used with the device.
- Only iPod mode supports album art.

iPod mode:

- Depending on the size of the search list, results may be delayed during first search. That is due to the iPod, which takes a moment to setup and provide the search index.
- iPods/iPhones display, depending on content and sorting, an extended set of information on the playlist page.

NOTE:

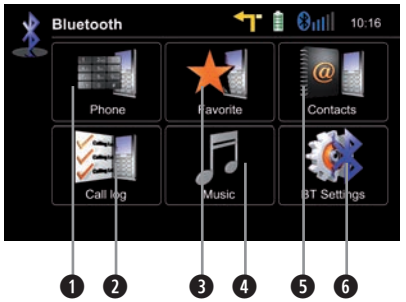
See www.zenec.com for:

- Compatible file formats and their possible restrictions.
- iPod/iPhone compatibility list.

BLUETOOTH MODE

Bluetooth main menu:

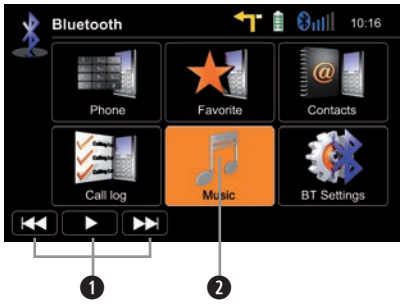
Tap icon to select element.



Control elements:

1. Onscreen keypad
2. Call Log
3. Favourites
4. Audiostreaming (A2DP) toggle
5. Contacts
6. Bluetooth settings

A2DP (de-)activation:

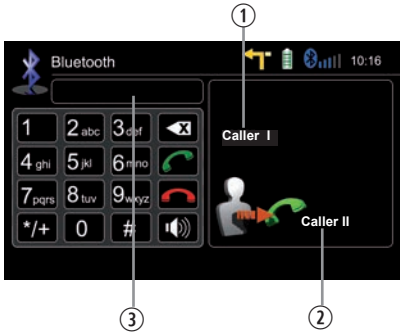


Control elements:

1. Control Playback
2. A2DP On/Off (highlighted=ON)

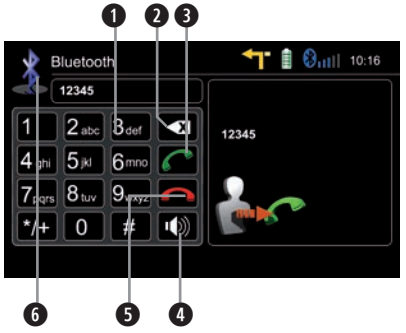
BLUETOOTH MODE

Accept call, dial, hang up, switch between calls:



Display elements:

① First incoming call
② Second incoming call
③ Dialled number



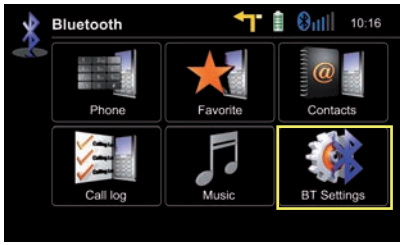
Control elements:

1. Keypad
2. Delete last digit
3. Pick up call / Switch to second call
4. Toggle to shift call between handsfree and mobile phone (privacy mode)
5. Hang up active call / Back to first call
6. Back to BT main menu

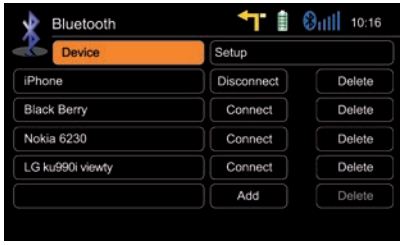
BLUETOOTH MODE

Pairing a mobile phone:

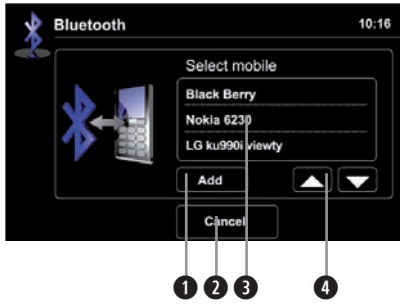
1 Enter BT settings > Device



2 Tap on "Add" to trigger a search for BT devices.



3 Choose your mobile phone from the list or retry searching. Press "Add".

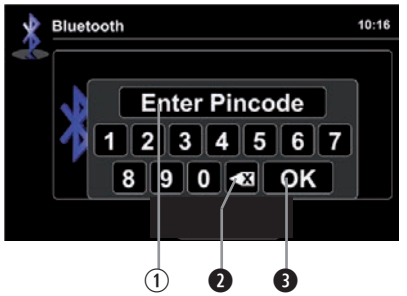


Control elements:

❶ Add a mobile phone and input PIN for pairing
❷ Back to BT settings
❸ Tap to select mobile phone
❹ Browse list (up/down)

BLUETOOTH MODE

4 Enter PIN code and tap OK or retry.



① PIN code
❷ Deletes the last digit
❸ Acknowledge PIN code and continue

5 Upon request enter identical PIN code on your mobile and acknowledge. You should now get a screen saying "Device successfully paired".

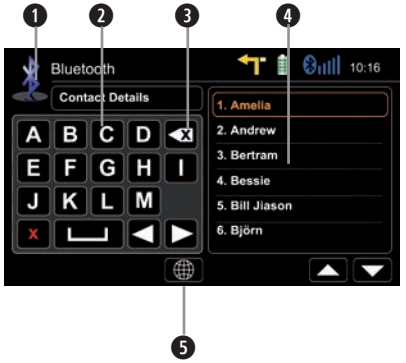
NOTE:

If you are trying to pair more than one mobile phone:

- Switch off the "auto connect" function while pairing additional mobile phones with the device.
- Use different PIN code twins for each paired mobile phone.

BLUETOOTH MODE

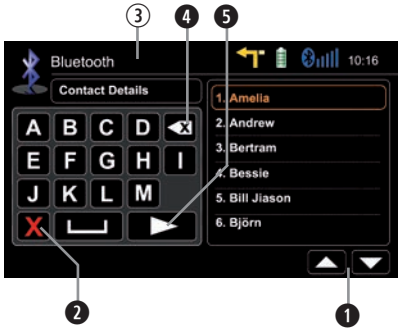
Contacts - Manage phonebook:



Control elements:

❶ Back to BT main menu
❷ Tap a contact number to start a call
❸ Tap to delete last character
❹ Choose contact name from list
❺ Select preferred keyboard language

Search for an entry:



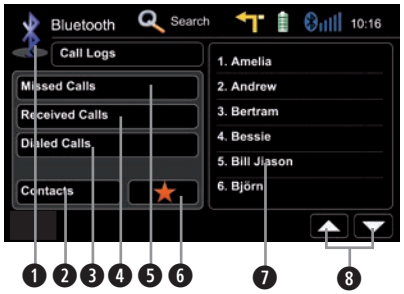
❶ No function, when keypad is active
❷ Quit keypad
③ Display input
❹ Tap to delete last character
❺ Switch to next page of keypad

NOTE:

■ You may search for up to 15 leading characters.

BLUETOOTH MODE

Manage phonebook:



Control elements:

❶ Go back to BT main menu
❷ Go to contacts page
❸ Tap to display outgoing call list
❹ Tap to display incoming call list
❺ Tap to display missed call list
❻ Go to favourites page
❼ Tap on contact name to call
❽ Page up/down

NOTE:

■ The synchronisation, the transferring, the sorting as well as the display of the phone book entries depend on the mobile phone brand and model. If the synchronisation doesn't work properly, disconnect the mobile phone and repeat the pairing process.

■ If automatic phone book synchronisation does not work, consult the manual of your mobile phone. Some mobile phones require explicit activation of that function.

■ After entering the BT main menu press & hold either the Contacts or Call-Log icon in order to force a resync of the entire phone book (if you have experienced syncing problems).

BLUETOOTH MODE

Manage favourites:

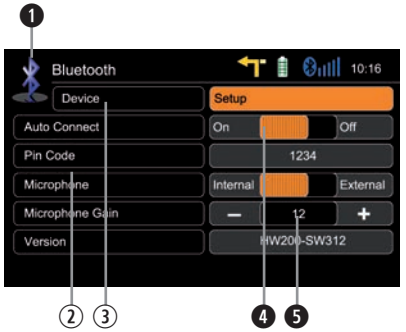
Control elements:

❶ Tap on contact name to call a favourite
❷ Delete favourite

NOTE:

■ Be aware that solely terminating the connection, or deleting a connected mobile phone, does not affect the list of favorites. Favourites have to be explicitly deleted one by one.

Setup settings:



❶ Back to BT main menu
② Options
③ BT device settings
❹ Microphone selection
❺ Tap +/- to adjust microphone gain

BLUETOOTH MODE

NOTE:

■ If your mobile phone is compatible and still does not appear in the device list, make sure Bluetooth is turned on and set to "visible for all devices".

■ Bluetooth connections usually work within a range of approx. 8 m. Obstacles in the way may shorten the distance.

■ You can pair up to five mobile phones, and synchronise up to a thousand phonebook contacts each.

■ In order to use the built-in handsfree function you need to pair your mobile phone first.

■ It cannot be guaranteed, that all mobile phones can be paired and that all functions will work.

■ For the "BT compatibility list" of tested and compatible mobile phones as well as the latest software updates look out on www.zenec.com.

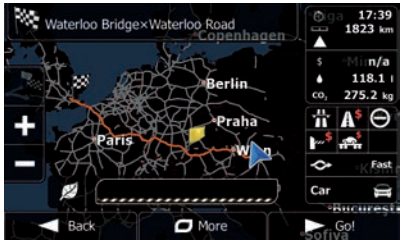
NAVIGATION MODE

How to input a destination and start a route guidance:

Tap on "Find".

Choose your preferred destination search method. Here, in our example, choose "Find address".

Type in a city, street name, house number and confirm each step by tapping OK.



The program is now calculating the desired route. Once route calculation has completed just tap "GO!" to enter active route guidance mode.

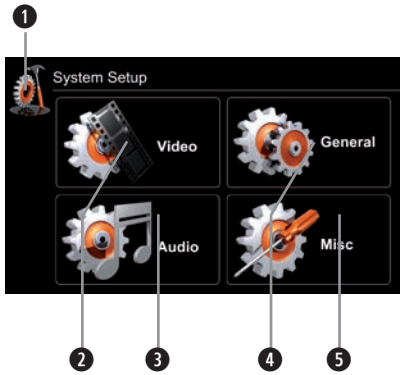
NAVIGATION MODE

NOTE:

- For operation and detailed description of navigation features, please refer to the separate navigation manual.
- You may listen to any playback source in route guidance mode. The navigation software automatically manages volume levels of voice guidance.
- If you change the volume level during voice guidance, the chosen volume level gets stored for later route guidance.
- Audio playback is, during voice guidance, capped to volume 10. If the preset audio volume is below 10, it will be muted.

SYSTEM SETUP: MAIN/FIRST SETTINGS

Main setup screen:



Control elements:

1. Return to the previous menu. Works with all four submenus.
2. See chapter Setup Video.
3. See chapter Setup Audio.
4. See chapter Setup General.
5. See chapter Setup Misc.

Settings to attempt after mounting and initial startup:

Set OSD language:

Go to Setup>General>Language to choose your desired OSD language. Animated picture visualises your setting.

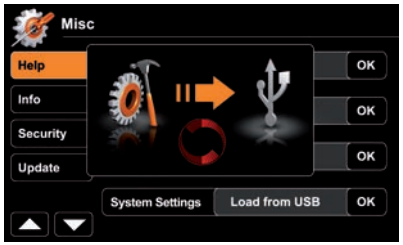
Set Reverse Camera:

Go to Setup>General>Driver Assist Needs to be enabled to use the camera. Animated picture visualises your setting.

SYSTEM SETUP: IMPORT/EXPORT SYSTEM SETTINGS

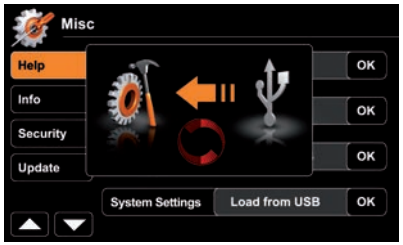
Go to Setup>Misc>Help

Export system settings:



1. Format USB flash drive with FAT32.
2. Connect USB flash drive to device.
3. Tap "OK", at System Settings-Export option, to launch file export.

Import system settings:



1. Connect USB flash drive to device.
2. Tap "OK", at System Settings-Import option, to launch import.
3. Restart device upon import completion.

NOTE:

- Make sure the USB flash drive has been FAT32 formatted.
- Refrain from manually modifying the generated export file. Re-import relies on proper file integrity.
- After adding new functions, by means of a system update, they will always be intialised with standard default values. That compensates for lacking values from the import file content.
- After a firmware update, check the update installation instructions for notes on system settings import and take them into consideration.

SYSTEM SETUP: VIDEO

Animated picture visualises TV shape settings.

Animated picture visualises your setting during adjusting TFT screen brightness.

Day-/Night TFT screen brightness is controlled by GPS time signal.

Standby activation turns screen OFF. Apart from that, the device operates in a normal manner.

Tap on the screen to exit standby.

NOTE:

Name	Descriptor	Function	Choice/Range
TV-Shape	Video display setting	TV-Shape	Normal
			Cinema

Picture	TFT bright-ness control	Brightness Day	0...20
		Brightness Night	0...20

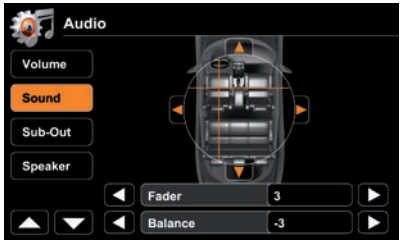
Standby	TFT OFF

SYSTEM SETUP: AUDIO

Audio mixer:

Choose "Last" to adjust to last volume.
Choose "Set" to adjust to an arbitrary value.

Level adjustments for sources:
Adjust volume relative to other sources.



Animated picture visualises fader and balance settings.

EQ frequency adjustments
Adjust EQ bands.

Animated picture visualises sub-out level.

If your vehicle is equipped with an integrated OE Soundsystem, activate parameter "OE Soundsystem" in order to avoid audio distortion.

Tap "OK" at EQ to open equalizer page.

NOTE:

	Descriptor	Function	Choice/Range
Volume	Audio mixer	Start volume	last value, set value
		Set start volume	0...40
		TA volume	last value, set value
		Set TA volume	0...40
		NAV volume	last value, set value
		Set NAV volume	0...40
	Level adjustment of sources	Tuner	rel. 0...14
		CD/DVD	rel. 0...14
		USB/SD/iPod	rel. 0...14
		A/V In	rel. 0...14

Sound	Level assignment	Fader	front 9, center 0, rear -9
		Balance	left -9, center 0, right 9
	EQ frequencies	Set bass frequency	50, 100, 200 Hz
		Set mid frequency	0.5, 1, 2 kHz
		Set treble frequency	5, 10, 15 kHz
	Loudness		On, Off

Sub-Out	Sub-Out settings	Level	rel. -7...+7
		Crossover	55, 80, 120 Hz

Speaker	Speaker system settings	OE Soundsystem	On, Off
		Open Equalizer	OK

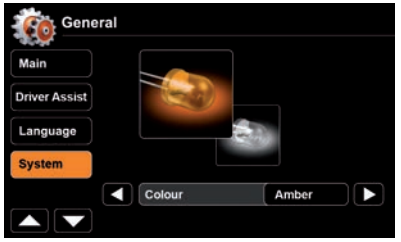
SYSTEM SETUP: GENERAL

System time gets periodically updated by GPS time stamp.

Animated picture visualises your driver assist settings. Example: Reverse Camera.

Reverse mute: Mute audio when reverse gear is engaged.

Shown flag visualises the chosen OSD language.



Choose between amber or white key illumination.

NOTE:

Name	Function	Choice/Range
Main	Beep	On, Off
	Radio area	Europe, USA, Latin (America)
	Bluetooth	On, Off
	Volume Pop-Up	On, Off
	Antenna supply	On, Off

NOTE:

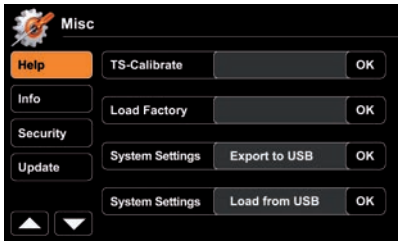
- Switch above mentioned antenna supply parameter to "Off", if your vehicle does not deploy an active antenna.

Driver assist	Parking assist	Off, Rear view camera
	Alt button	Infobar, Standby
	Reverse mute	On, Off

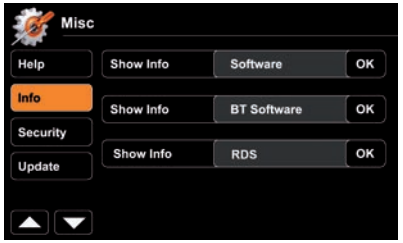
Language	OSD	Set OSD language

System	Colour	Amber, White

SYSTEM SETUP: MISC



You may export/import your system settings to/from a USB flash drive. A nice feature, to restore your device settings after a firmware update, or a complete power disconnection.



Tap "OK" to display corresponding software version.

Activate password function to secure device in case of temporary disconnection from power supply (theft). Use an arbitrary 4-digit code. To reset the code enter "0000" instead.

Press "OK" to launch a software update. For preparations and details, consult the accompanying update installation instructions BEFORE you run software updates.

NOTE:

Help	Calibrate TS	OK starts touchscreen calibration
	Load factory	OK loads factory settings
	System settings	Export settings to USB
	System settings	Load settings from USB

Info	Show Info	Software
	Show Info	BT Software
	Show Info	RDS

Security	Password enable	On, Off
	Password	OK sets password

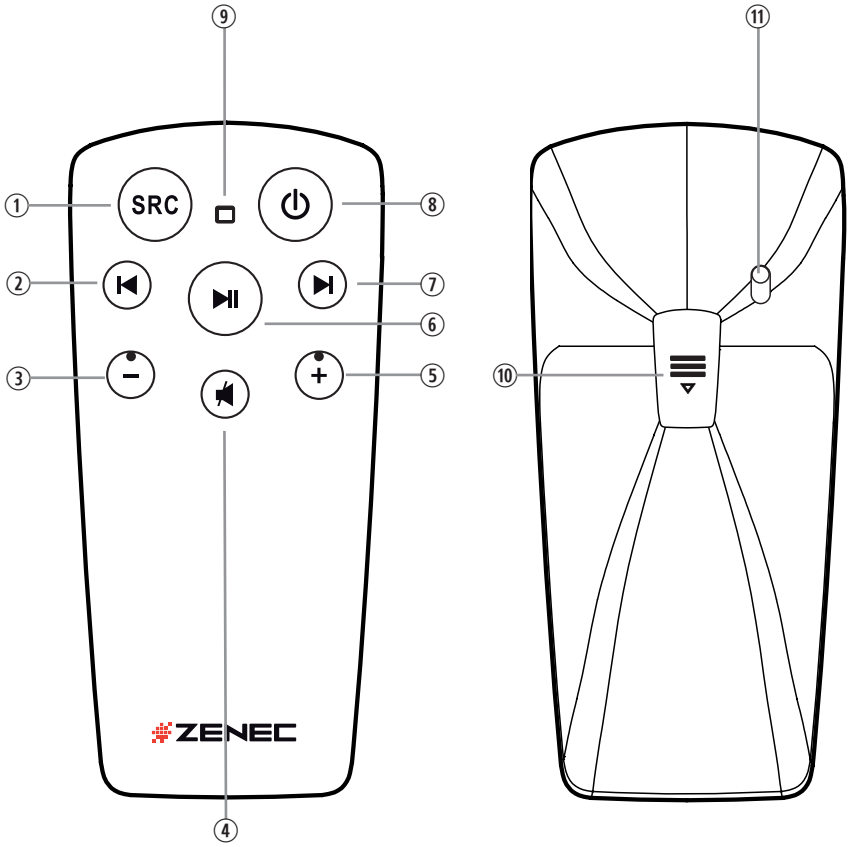
Update	Update	OK starts software update

NOTE:

- Compare installed software versions with potentially newer versions on www.zenec.com (see support and download area for updates).

REMOTE CONTROL MAIN

Remote Control Buttons



REMOTE CONTROL MAIN

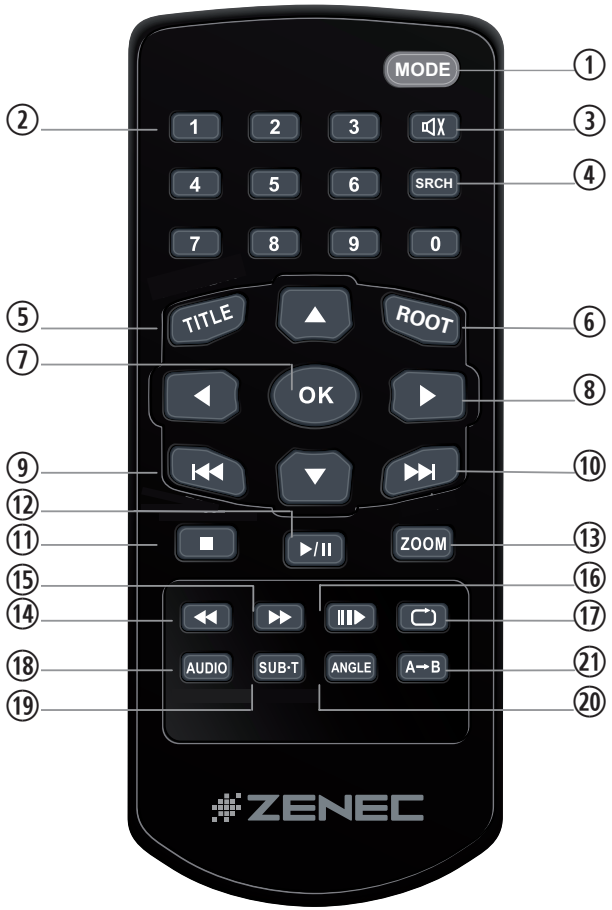
1. **SOURCE**
   Choose between playing modes
2. **PREVIOUS**
   Press to choose the previous track, title or chapter
   Press to decrease the receiving frequency to search for a radio station
   Press and hold to fast rewind
3. **VOLUME-**
4. **MUTE**
   Mute/Unmute audio playback
5. **VOLUME+**
6. **PLAY/PAUSE**
7. **NEXT**
   Press to choose the next track, title or chapter
   Press to increase the receiving frequency to search for a radio station
   Press and hold to fast forward
8. **POWER**
   Turn on/off device
9. **LED**
10. **LOCK FOR BATTERY COVER**
11. **ON/OFF SWITCH FOR REMOTE CONTROL**
    Turn on/off remote control

NOTE:

- Some functions may not be available; depending on selected mode and type of media.

REMOTE CONTROL M-ZONE

Remote Control Buttons



REMOTE CONTROL M-ZONE

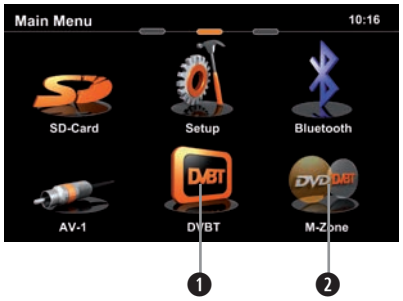
1. **MODE**
   Change source
2. **KEYPAD**
   Input track/chapter/title
3. **MUTE**
   Mute/un-mute audio output
4. **GOTO**
   Open numeric onscreen keypad
5. **TITLE**
   Open DVD Title menu
6. **ROOT**
   Open DVD main menu
7. **OK**
   Play/Pause; Confirm
8. **DIRECTION BUTTONS**
   Select item; move cursor
9. **SKIP PREVIOUS**
   Jump to previous track/preset/ chapter/title
10. **SKIP NEXT**
    Jump to next track/preset/ chapter/title
11. **STOP**
    Stop playback
12. **PLAY/PAUSE**
    Play/pause playback
13. **ZOOM**
    Zoom in/out
14. **FAST REVERSE**
    Fast reverse
15. **FAST FORWARD**
    Fast forward
16. **SLOW**
    Slow motion playback
17. **REPEAT**
    Repeat track/chapter/title
18. **AUDIO**
    Change DVD audio language
19. **SUB-T**
    Change DVD subtitle
20. **ANGLE**
    Change DVD viewing angle
21. **REPEAT A->B**
    Set start and end point at DVD to repeat

NOTE:

- Some functions may not be available; depending on selected mode and type of media.

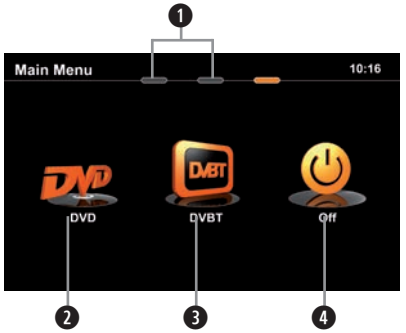
EXTERNAL PLAYBACK AND SOURCES

M-Zone



Control elements:

1. Direct access to DVB-T
2. Direct access to M-Zone



Control elements:

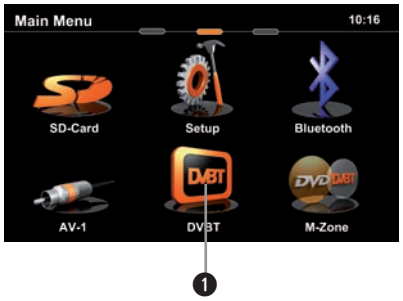
1. Direct access to main menu
2. Choose DVD
3. Choose DVB-T
4. Deactivate M-Zone

NOTE:

- With deactivated M-Zone you will not see any signal on connected M-Zone monitors (blackscreen).
- The M-Zone volume cannot be adjusted on the device. Use the control elements of the connected peripherals (i.e. roof monitor) instead, to adjust the volume.
- If the M-Zone and the front zone get both fed by one and the same media source, the M-Zone stereo output will be muted.
- The headunit does not memorize that the M-Zone has been activated after shutting off. Therefore you have to reselect the M-Zone after each re-start.

EXTERNAL PLAYBACK AND SOURCES

DVB-T



Control elements:

1. Direct access to DVB-T

Control elements:

1. Tap into the upper right corner to return to the main menu

NOTE:

- For DVB-T reception you need to connect an external ZENEC DVB-T receiver. For a perfect compatibility match check out the manual and the compatibility list in advance.
- Compatible DVB-T devices offer direct operation via touchscreen of the headunit.
- The headunit does not memorize that the DVB-T receiver has been activated after shutting off. Therefore you have to reselect DVB-T after each re-start.

GLOSSARY

A2DP	Advanced Audio Distribution Profile, Bluetooth Audio
AC-Control	Optical indication showing air condition status information
A/V In	Audio-Video Input
AUX In	Auxiliary Input, Audio only Input
CAN-Bus	Controller Area Network-Bus; Automotive industrial standard bus system
CAN/Stalk IF	Interface to communicate with CAN-Bus
DVB-T	Digital Video Broadcasting – Terrestrial; TV transmission standard
EQ	Equalizer
FAT32	File allocation table 32-bit
GSM	Global System for Mobile Communications, Mobile phone network
GUI	Graphical User Interface
HMI	Human Machine Interface (graphical part = GUI)
ID3-Tag	Format to display additional info together with MP3 audio files
Media Link box	Box to reroute some inputs from the back of the headunit to easier accessible locations
M-Zone	Rear seat entertainment area
OBC	On Board Computer, Menu to control board computer
OE	Original Equipment > OEM Original Equipment Manufacturer
OPS	Optical Parking system (shows parking radar)
OSD	On Screen Display
POI	Navigation: Point of interest
Phantom pow.	"In-line" antenna power supply; Power and antenna signals use the same wire
TMC/TMC Pro	Traffic Message Channel/Traffic Message Channel Professional Pro with extended pay content

TROUBLESHOOTING

Problem	Cause	Solution
GENERAL		
Unit will not power on.	Radio fuse blown.	Install new fuse with correct rating.
	Car battery fuse blown.	Install new fuse with correct rating.
	Illegal operation.	Press the RESET button.
No/low audio output.	Improper audio output connection.	Check wiring and correct.
	Volume set too low.	Increase volume level.
	Speakers damaged.	Replace speakers.
	Only one channel is playing.	Check the balance and fader adjustments.
	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections or replace the speaker cable.
	Mute is activated.	Turn off the Mute function.
Poor sound quality or distortion.	Unauthorized disc is in use.	Use original disc.
	Speaker power rating not compatible with unit.	Connect proper speakers.
	Speaker is shorted.	Check speaker connections.
TFT MONITOR		
No image.	The parking brake is not engaged.	Stop vehicle in a safe place and apply parking brake.
	The "Monitor off"-function is activated.	Touch the monitor to activate the display.
Prolonged image or improper height/ width ratio.	Improper aspect ratio setup.	Use correct aspect ratio setting.

TUNER		
Weak station searching.	Auto antenna not properly connected.	Connect the auto antenna cable properly.
	REG function is activated.	Turn REG function off.
	The AF function is not activated.	Activate the AF function.
MP3		
The ID3 tags are shown incorrectly.	Message is longer than LCD can display or ID3 tag is not compatible.	Use proper ID3 tag information.

DVD-PLAYER			
Disc does not play back.	[Bad Disc]	Disc is warped or scratched.	Use disc in good condition.
	[Bad Disc]	Disc is dirty or wet.	Clean disc with soft cloth.
	[Unknown Disc]	Incompatible disc is used.	Use compatible disc.
	[Unknown Disc]	Disc rating exceeds parental lock rating limit.	Change parental lock settings to lower restriction.
	[Region Error]	Disc region code is not compatible with unit.	Use disc with proper region code.
	[Bad Disc]	Disc is inserted upside down.	Insert disc with label side up.
Cannot insert disc.		Disc already inside unit.	Eject current disc and insert new one.

SPECIFICATIONS ZE-NC4612

GPS NAVIGATION SYSTEM
- 3D High-Definition motor-caravan navigation system
- 8 GB internal flash memory with map data for 46 Eastern and Western European countries
- Premium P.O.I. bundle with over 10 million destinations and additional EU Camping P.O.I. package
- TTS Pro voice guidance for 28 different spoken EU languages
- Realistic 3D rendering of terrains and landmarks, Tunnel-View, 3D Auto-Zoom for crossings and roundabouts, Real Junction View
- Eco and Smart Route Planning, Calculation of Real-Time Route Alternatives, Parking Around Algorithm, Detour Hint function etc.
- Outlook address import, Driver Alerts etc.
- Input option for car specific restrictions (height, width, length, weight, trailer etc.)
- TMC and TMC Pro receiver
- External GPS antenna
- 30 Days Latest Map Guarantee

PARROT BLUETOOTH HANDS-FREE MODULE
- Synchronization of up to 1,000 contacts with max. 5 telephone numbers per contact
- Alphabetical search function for contacts
- Internal and external microphone
- Future-proof upgradable Bluetooth firmware

MULTIMEDIA PLAYER
- DVD loader
- USB 2.0 port (via Media-Link box)
- SD/SDHC card reader (up to 32 GB)
- Made for iPod and iPhone
- Playback DVD loader: CD, CD-R/RW, MP3, WMA, DVD, DVD±R/RW, DVD-MP3, AVI, Xvid
- Playback SD/USB: MP3, WMA, AVI, Xvid

GENERAL FEATURES
- Intuitive, user friendly HMI in 20 different languages
- 6.2“/15.7 cm 16:9 TFT-LCD display with 800 x 480 pixels resolution and touchscreen control
- Phase diversity RDS dual tuner with 30 preset stations (18 FM/12 AM)*1
- Multi zone function
- 4 x 40 watts amplifier
- 24 bit D/A converter
- 2 x IR-remote control

A/V-CONNECTIONS
- 4.2-CH preamp line outputs
- 2-CH preamp line outputs without volume adjustment
- 2 x composite video outputs (NTSC)
- 1 x A/V-input
- 1 x video input for rear view camera with switching function
- Connectivity for touchscreen compatible external DVB-T or DAB+ receivers

BRAND/VEHICLE SPECIFIC FEATURES
- Steering wheel remote control integration via CAN*2
- Multifunction driver information display support for audio source via CAN*3
- Selectable key illumination: amber/white

Vehicle integration disclaimer:
*1 The vehicle must be fitted with a phase diversity antenna system, or else, must be retro fitted with such a system.
*2 Functionality cannot be assured for vehicles featuring radio-ready provisions or a factory mounted OE Radio Audio 5.
*3 Bluetooth and Navigation source info-data output on the driver information display is not supported.
Harman Kardon and Bang & Olufsen OE active sound systems (MOST bus based) are not supported.

⚠ **NOTE:** SPECIFICATIONS AND DESIGNS OF THIS MODEL ARE NECESSARILY SUBJECT TO CHANGE WITHOUT NOTICE.

WARRANTY 2 YEARS

Dear customer,

Thank you for purchasing this ZENEC product. It is advisable to keep the original packaging material for any future transporting of the product. Should your ZENEC product require warranty service, please return it to the retailer from whom it was purchased or the distributor in your country. This ZENEC product is warranted against defective materials or workmanship for a period of TWO years from date of purchase at retail to the original purchaser.

WARRANTY LIMITATIONS

This warranty does not cover any damage due to:

1. Improper installation, incorrect audio or mains connection(s).
2. Exposure to excessive humidity, fluids, heat sun rays or excessive dirt or dust.
3. Accidents or abuse, unauthorized repair attempts and modifications not explicitly authorized by the manufacturer.

This warranty is limited to the repair or the replacement of the defective product at the manufacturer's option and does not include any other form of damage, whether incidental, consequential or otherwise. The warranty does not cover any transport costs or damages caused by transport or shipment of the product. Warranty work will not be carried out unless this warranty certificate is presented fully completed with model, serial number, purchaser's address, purchasing date and dealer stamp together with the original sales slip!

ZENEC MODEL: ZE-NC4612

Serial number: .....

Date of purchase: .....

Your name: .....

Your address: .....

City: .....

State: ..... ZIP or postal code: .....

Country: .....

Dealer's address & stamp

RoHS 2 COMPLIANT 2011/65/EU

E8 10R-04 1307

- If at any time in the future you should need to dispose this product, please note that waste electrical products are not be disposed with the household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice (Waste Electrical and Electronic Equipment Directive).

LEGAL DISCLAIMERS

The packing material of this item and the finished product contained inside are fully compliant with RoHS 2 directive. Halogenated flame retardants are not used in any of the plastic injection parts of the product, nor for the printed circuit boards.

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If at any time in the future you should need to dispose this product, please note that waste electrical products are not be disposed with the household waste. Please recycle where facilities exist.
Check with your Local Authority or retailer for recycling advice (Waste Electrical and Electronic Equipment Directive).

Great care was taken in preparing this user manual. Constant product development may mean that some information is not entirely up to date. The information in this document is subject to change without prior notice. ZENEC shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from the performance or use of this user manual.
Diese Bedienungsanleitung wurde mit der grösstmöglichen Sorgfalt erstellt.

Check www.zenec.com for compatibility of your mobile phone model and its compatibility with the Parrot BT section of your ZENEC device.

Check www.zenec.com for the compatibility and potential limitations of devices to be connected – i.e. iPod/iPhone models listed to be compatible with the ZENEC device of choice.

The driver of a car with a ZENEC navigation or multimedia system installed should know and follow the local traffic laws/traffic regulations existing in the country of use.

EC DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY

ZENEC
TOUCH ANOTHER WORLD

ZENEC by
ACR Braendli + Voegeli AG
Bohrturmweg 1
5330 Bad Zurzach
Switzerland

Hereby declares under our sole responsibilily that the products:

Description of object:	In-Car Navigation Device
Name of object:	ZENEC E>GO (C9D-Dual-Tuner)
Type name of objects:	ZE-NC2011D, ZE-NC2051D, ZE-NC3131D, ZE-NC3152, ZE-NC4612 and identical/similar devices based on C9D hardware platform

are conform to the essential requirements of the:

European Vehicle EMC Directive 72/245/EEC, including all modifications up to 2009/19/EC dated 12.03.2009 including proof for complience with following standards:	CISPR25 (2nd edition 2002) ISO 11452-2 (2nd edition 2004)
Radio and Telecommunications Terminal equipment Directive, R&TTE 1999/5/EC	

The following harmonized European Standards have been applied:

ECE R10-04		Type approval of an electrical / electronic sub-assembly under Regulation Nr. 10
EN 55022:2006	Class B	Information Technology equipment - Emission Limits and Methods
EN 55024:1998 + A1:2001 + A2:2003		Information Technology equipment Immunity Limits and Methods
EN 61000-3-2:2006	Class D	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3:1995 + A1:2001 + A2:2005		Electromagnetic compatibility (EMC) - Part 3: Limits - Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current <= 16 A
EN 301 489		EMC and Radio Spectrum Matters (ERM)
	Part 1 V1.5.1	Common Technical Requirements
	Part 17 V1.2.1	Specific Conditions for 2,4 GHz Wideband Transmission Systems and 5GHz high Performance RLAN equipment
ISO 7637-2:2004		Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only
EN 60950-1:2006		Information technology equipment – Safety – Part 1: General requirements (IEC 60950-1:2005, modified)
2002/96/EC		Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), Product is in accordance with the European WEEE Directive,
2002/95/EC (2008/385/EC)		RoHS Directive and the German ElektroG.
2011/65/EC		RoHS2 Directive, revised and extended by Annex II.

Declared by:

Andre Grossenbacher, Chief Technology Officer

Bad Zurzach	06.12.12	a. Grossenbacher
(Place)	(Date)	(Signature)

Roland Braendli, Managing Director

Bad Zurzach	06.12.12	R. Braendli
(Place)	(Date)	(Signature)

EU Legal Representative:
ACR S & V GmbH, Industriestrasse 35, D-79787 Lauchringen, Germany

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NOTES

NOTES

ZENEC by ACR AG · Bohrturmweg 1 · Bad Zurzach · Switzerland
www.zenec.com

Rev. A